



**Bright Canyon**  
ENERGY

## JOINT FORCES TRAINING BASE — LOS ALAMITOS MICROGRID

Energy Resilience | Increased Mission Capability | Clean, Renewable Solar Power

### Joint Forces Training Base — Los Alamitos Microgrid

Orange County, Calif.

Energized and Operational as of August 2023

The JFTB — Los Alamitos Microgrid will provide the base with 100% backup power in emergencies to support the Army and California National Guard's mission on the base, and generate clean, renewable solar energy for the community during normal operations.

Bright Canyon Energy is built on more than 130 years of delivering reliable energy to power the growth of Arizona and the American Southwest. Founded in 2014, Bright Canyon Energy creates sustainable energy solutions for customers focusing on clean energy, microgrids, energy storage and transmission. With headquarters in Phoenix, Bright Canyon Energy is a wholly owned, unregulated subsidiary of Pinnacle West Capital Corporation.

Learn more at [brightcanyonenergy.com](https://brightcanyonenergy.com) or email us at [contact@brightcanyonenergy.com](mailto:contact@brightcanyonenergy.com).

#### One Arizona Center

400 East Van Buren Street, Suite 350 Phoenix, Arizona 85004



**Bright Canyon**  
ENERGY

## Working in partnership

The JFTB — Los Alamitos Microgrid is a collaboration between:

- Bright Canyon Energy
- U.S. Army Office of Energy Initiatives
- Joint Forces Training Base — Los Alamitos
- California National Guard
- U.S. Army Corps of Engineers
- San Diego Gas & Electric (SDG&E)
- Southern California Edison
- PowerSecure
- SunPower
- First Solar

Bright Canyon is the developer and owner/operator of the microgrid, leasing land from the U.S. Army. SDG&E will purchase the renewable energy from the microgrid during normal operations. Energy will be transmitted over Southern California Edison's power lines. PowerSecure (a Southern Company subsidiary) and SunPower are the engineering, procurement and construction partners. First Solar manufactured the solar panels for the project.

## Project by the numbers

100 acres

26 megawatts\* of solar power

20 megawatts\* / 40 megawatt-hours of battery energy storage

3 megawatts\* of backup generators

(\*One megawatt is enough power to supply as many as 200 residential homes)



## Project benefits

The JFTB — Los Alamitos Microgrid will:

- Protect the base against grid outages and power quality issues
- Provide the base with 100% backup power in the case of emergency
- Increase mission capability, ensuring operations for weeks if needed in the event of a grid outage
- Support the base's critical military training and emergency response functions
- Generate clean, renewable energy for the surrounding community
- Support the Army's efforts to increase use of clean energy and reduce greenhouse gas emissions

**Microgrids** are small-scale generation or energy storage facilities installed at customer locations that are built to isolate or "island" a facility in the event of a grid power outage. Microgrids:

- Provide increased energy security, resilience and reliability
- Improve power quality (voltage and frequency)
- Reduce downtime of critical equipment
- React autonomously to grid disruptions and outages
- Leverage solar and battery storage to minimize environmental impacts
- Accommodate customer's changing energy needs through a flexible design

Bright Canyon Energy's microgrids are controlled by Yuma Sentinel™ patented technology that seamlessly integrates any number of generation resources (including solar, energy storage and reciprocating engines) to protect the critical energy needs of its customers.

